

Claims

- [c1] We claim as our invention:
1. An iron golf club head comprising:
a periphery member composed of a metal material, the periphery member having a sole wall, a toe wall extending upward from the sole wall at a first end of the sole wall, a hosel extending upward from the sole wall at a second end of the sole wall, and a heel wall extending upward from the sole wall, the sole wall having a width, W_s , ranging from 0.060 inch to 1.50 inches;
a central member composed of a non-metal material, the central member having a body portion with a forward surface, a sole surface, a top surface, a toe surface, a heel surface and a flange extending from the top surface at an intersection of the top surface and the forward surface, the central member having a rear cavity defined by the body portion; and
a face plate composed of a metal material, the face plate disposed over the forward surface of the central member, a top line of the face plate in contact with the flange of the central member.
 - [c2] 2. The iron golf club head according to claim 1 wherein the face plate is composed of a titanium alloy material and has a thickness ranging from 0.050 inch to 0.250 inch.
 - [c3] 3. The iron golf club head according to claim 1 wherein the central member is composed of a bulk molding compound.
 - [c4] 4. The iron golf club head according to claim 1 wherein the periphery member is composed of an iron-nickel-tungsten alloy having a density of 8g/cm^3 to 11g/cm^3 .
 - [c5] 5. The iron golf club head according to claim 1 wherein the club head has a moment of inertia I_{xx} through the center of gravity of at least 2600 g-cm^2 .
 - [c6] 6. The iron golf club head according to claim 1 wherein an upper end of the hosel is located below the top line of the face plate when the golf club head is in the address position.
 - [c7] 7. The iron golf club head according to claim 1 wherein the central member has

[c9] 9. The iron golf club head according to claim 1 wherein the club head has a moment of inertia I_{zz} through the center of gravity of at least $2600 \text{ g}\cdot\text{cm}^2$.

[c11] 11. An iron golf club head comprising:
a periphery member composed of a metal material, the periphery member having a sole wall, a toe wall extending upward from the sole wall at a first end of the sole wall, a hosel extending upward from the sole wall at a second end of the sole wall, and a heel wall extending upward from the sole wall, the sole wall having a width, W_s , ranging from 0.060 inch to 1.50 inches;

a central member composed of a non-metal material, the central member having a body portion with a forward surface, a sole surface, a top surface, a toe surface, a heel surface and a flange extending from the top surface at an intersection of the top surface and the forward surface, the central member having a rear cavity defined by the body portion; and

a face plate composed of a metal material, the face plate disposed over the forward surface of the central member, an upper perimeter of the face plate in contact with the flange of the central member;

wherein the club head has a moment of inertia I_{zz} through the center of gravity of at least 2600 g-cm^2 and a moment of inertia I_{xx} through the center of gravity of at least 2600 g-cm^2 .